Ray RLS
Pat PM
Aron
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MONITOR WELL PRE-SPUD PROPOSAL

1) WELL NAME/NUMBER: WB-1

2) PROPOSED LOCATION: (a) General (on or off-site) On-Site

(attach map Site Area 100

(b) Sect 2 Twnshp 21S Rng 3E SE ¼ NW ¼ SW ¼ SE ¼

3) WELL PARAMETERS:

(a) Est. total depth 400 (ft) (b) Est. ground elevation 4842 ft

(c) Anticipated stratigraphy:

Alluvium (Santa Fe Group) from 0 ' to 90 ' (depth)

Panther Seep Formation from 90 ' to T.D. ' (depth)

(d) Anticipated water bearing horizon(s):

Panther Seep Formation at 180 ' (depth)

(Sandstone or Limestone) at ' (depth)

(e) Anticipated static water level 170 ' (depth)

4) WELL PURPOSE/JUSTIFICATION (attach maps and table if needed):

To determine vertical distribution of groundwater contamination and vertical aquifer properties east of the 100 Area.

5) PROPOSED DRILLING PARAMETERS:

(a) Drilling method(s): (air/foam/mud rotary/auger/etc.)

Mud-Rotary w/7 7/8" Tricone Bit from 0 ' to 150 ' (depth)

Air-Foam Rotary w/3 7/8" Air Hammer Bit from 150 ' to T.D. ' (depth)

Air-foam method: "Quik-Foam" surfactant/water mixture used in conjunction with filtered compress air.

Mud-rotary method: Bentonite mud/water mixture.

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(b) Lithology sampling - collect sample every:

5' intervals Method Grab from 0 ' to T.D. ' (depth)
Core type 6" Dennison from _____ ' to _____ ' (depth)
2" Christiansen from _____ ' to _____ ' (depth)

(c) Anticipated drilling additive(s): Quik-Foam & EZ-Mud

7) PROPOSED WELL COMPLETION DESIGN/MATERIALS

(a) Casing:	Material	Diameter	From	To	Comments
Temporary					
Surface	carbon steel	5"	0	150'	
Completion Pipe	PVC-Sch 80***	2"	0	TD.	

Standard material: Blank riser, silt trap, locking cap

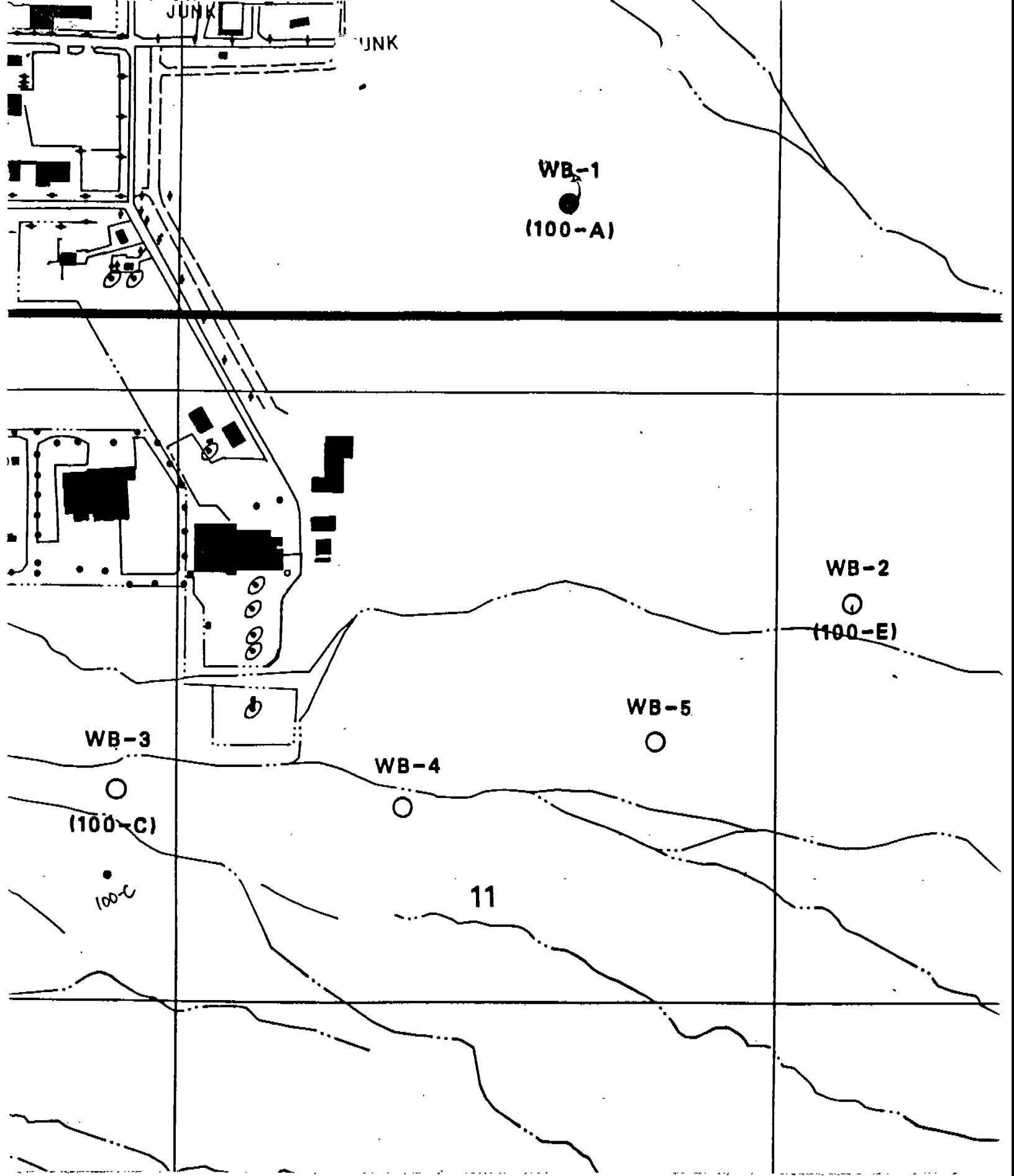
N/A Data not available at this time
* for deep completions (450 feet or more)
** for shallow completions
*** open borehole completion using Westbay couples, pumping ports, monitoring ports, and packers.
\+ Type 304, Schedule 5 stainless steel
Type 304, Schedule 10 stainless steel
++ Regular strength screen, extra strength screen used below 450 feet

(b) Packers placed in open borehole (no filter pack required).

8) PROPOSED WELL DEVELOPMENT
(a) Purge all fluids from hole prior to well completion.

9) WELL AUTHORIZATION
(a) Proposed by Geoscience Consultants, Ltd.

(b) Authorized Robert Mitchell (name) NASA (representing) _____ (signature)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WB-1
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